

CLAIM AMENDMENTS

This listing of claims will replace all prior versions and listings of claims in the application.

1. (original): An integrated electrode assembly structured for use in association with an electrically assisted delivery device for delivery of a composition to a membrane, said integrated electrode assembly comprising:

a flexible backing; an electrode layer connected to said flexible backing, said electrode layer having at least a donor electrode and a return electrode;

at least one lead extending from each of said donor electrode and said return electrode to a tab end portion of said assembly, said tab end portion being structured for electrical connection with at least one component of said electrically assisted delivery device;

a donor reservoir positioned in communication with said donor electrode, said donor reservoir including an amount of said composition;

a return reservoir positioned in communication with said return electrode;
and,

at least one of the following:

(a) an insulating dielectric coating positioned adjacent to at least a portion of at

(b) at least one spline formed in said electrode layer,

(c) a tab stiffener connected to said tab end portion,

(d) a tab slit formed in said tab end portion,

(e) a sensor trace positioned on said tab end portion,

- (f) a release cover having a donor portion structured to cover said donor reservoir and a return portion structured to cover said return reservoir,
- (g) at least a portion of said flexible backing having a flexural rigidity less than a flexural rigidity of at least a portion of said electrode layer,
- (h) wherein a shortest distance between a surface area of an assembly including said donor electrode and said donor reservoir and a surface area of an assembly including said return electrode and said return reservoir being sized to provide a substantially uniform path of delivery for said composition through said membrane,
- (i) wherein a surface area of an assembly including said donor electrode and said donor reservoir is greater than a surface area of an assembly including said return electrode and said return reservoir,
- (j) wherein a ratio of a surface area of at least one of said reservoirs to a surface area of its corresponding electrode is in the range of about 1.0 to 1.5,
- (k) wherein a footprint area of said assembly is in the range of about 5 cm.sup.2 to 60 cm.sup.2,
- (l) wherein a ratio of a total surface area of said electrodes to a total footprint area of said assembly is in the range of about 0.1 to 0.7,
- (m) wherein a ratio of a surface area of said donor electrode to a surface area of said return electrode is in the range of about 0.1 to 5.0,
- (n) wherein a ratio of a thickness of said donor reservoir to a thickness of said return reservoir is in the range of about 0.5 to 2.0,

(o) wherein at least one component of said assembly in

communication with at least one of said reservoirs has an aqueous absorption capacity less than an aqueous absorption capacity of said reservoir in communication with said component of said assembly,

(p) a slit formed in said flexible backing in an area located between said donor electrode and said return electrode,

(q) at least one non-adhesive tab extending from said flexible backing,

(r) a gap formed between a portion of a layer of transfer adhesive deposited on said electrode layer and a portion of a tab stiffener connected to said tab end portion,

(s) a tab stiffener attached to a portion of said tab end portion,

(t) at least one tactile sensation aid formed in said tab end portion,

(u) at least one indicium formed on at least a portion of said assembly,

(v) a minimum width of a portion of a layer of transfer adhesive deposited on said electrode layer adjacent to at least one of said donor electrode and said return electrode is in the range of at least about 0.375 inches,

(w) a minimum tab length associated with said tab end portion is in the range of at least about 1.5 inches.

2. (original): The assembly of claim 1, wherein said composition delivered to said membrane includes at least epinephrine.

3. (original): The assembly of claim 1, wherein said composition

delivered to said membrane includes at least lidocaine.

4. (original): The assembly of claim 1, wherein at least one of said electrodes comprises a material selected from the group consisting of Ag and Ag/AgCl.

5-107 (cancelled)